

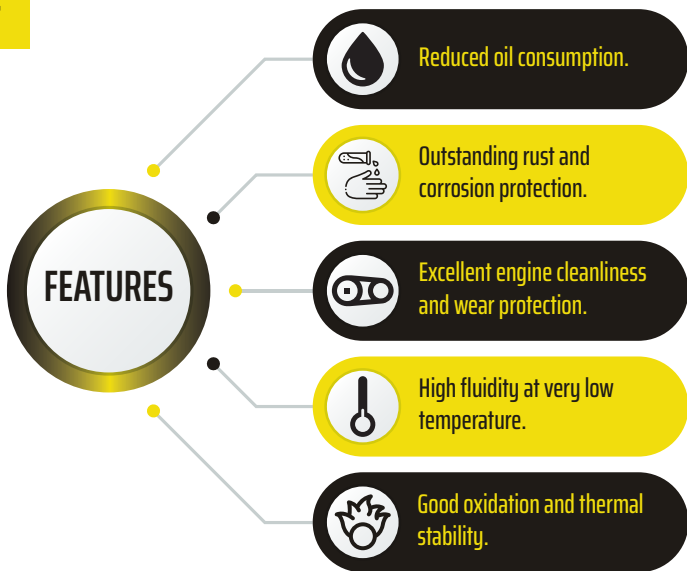


# SHIELD - DIESEL ENGINE OIL

## SAE 50

DESCRIPTION

Shield's Diesel Engine Oil SAE 50 is a superior quality heavy-duty monograde lubricant for diesel engines. It is blended from premium quality virgin base oils and advanced additives that offer the best possible lubrication. It assures excellent protection against high temperature engine deposits, oil degradation, and forms a thick oil film that protects engine parts from friction and wear.



### PERFORMANCE LEVELS:

- API CK4, CJ4, CI4, CH4, CF4
- CUMMINS CES 20076, CES 20071
- MACK EO-N PREMIUM PLUS, MACK EO-M
- CATERPILLAR ECF-1a
- DAIMLER MERCEDES-BENZ MB 228.3
- VOLVO VDS-3
- RENAULT VI RLD-2

### APPLICATIONS:

The Shield Diesel Engine Oil SAE 50 is recommended for mixed fleets of automotive diesel truck manufacturers, on-highway light and heavy-duty trucking, and off-highway industries including: construction, mining, quarrying, agriculture and diesel generator sets.

### TYPICAL PHYSICAL PROPERTIES

SL#	Characteristics Unit	Test Method	API Grade / Performance Level				
			CK4	CJ4	CI4	CH4	CF4
1	Density @ 15°C	ASTM D 1298	0.8940	0.8940	0.8940	0.8940	0.8940
2	Viscosity @ 40°C	ASTM D 445	228.60	228.60	228.60	228.60	228.60
3	Viscosity @ 100°C	ASTM D 445	19.50	19.50	19.50	19.50	19.50
4	Viscosity Index	ASTM D 445	97	97	97	97	97
5	Flash Point COC, °C	ASTM D 92	248	248	248	248	248
6	Pour Point, °C	ASTM D 97	-18	-18	-18	-18	-18
7	Total Base Number, mgKOH/g	ASTM D 2896	11	11	11	11	11
8	Color	ASTM D 1500	L2.5	L2.5	L2.5	L2.5	L2.5
9	Appearance	ASTM D 4176	C & B	C & B	C & B	C & B	C & B

\*Exact specifications may slightly vary from the above, but within the international standards